

ENGINEERING CODE
301GO1101AC

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
380 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
MBP

COOLING CAPACITY
3563 W

EFFICIENCY
2.06 W/W

MOTOR TYPE
SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	10.1 m ³ /h (58 cm ³ /rev)
Compressor Cooling	Static
Horse Power	3 1/2 hp
Power Supply	380-420 V 50 Hz / 460 V 60 Hz

Electrical Data

Motor type	SCRL
Pole	2
Voltage working range at 50 Hz	342-462 V
Voltage working range at 60 Hz	414-506 V
Maximum Motor Temperature	130 °C
Run Winding Resistance	2.45 Ω at 25° C
Motor insulation class	B
Rated speed	approximately 2900
High Side	3.2 MPa
Low Side	2 MPa
Maximum discharge temperature	125
Pressure release valve opening range	2.76-3.10 MPa

Mechanical Data

Maximum Recommended Refrigerant Charge	4.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	32.4 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

External Characteristics

Base Plate Holes	191x191		
Base Plate Dimensions	239x239		
Height	424 mm		
Diameter	168 mm		
Hanger Tab	1		
Oil Side Glass	1		
Connector	Internal Diameter	Material	Shape
Suction	1 1/4"-12 UNF 2A	Copper plated steel tube	Rotolock
Discharge	3/4"-16 UNF 2A	Copper plated steel tube	Rotolock

Rated Points

Cooling Capacity	Power Input	COP	Rated Load Amps RLA	Locked Rotor Amps LRA	Maximum Operating Current MOC	Sound Power Level
3563 W	1731 W	2.06 W/W	5 A	60 A	9.2 A	73 dBA

Test Condition: EN12900; Te -10°C; Tc 45°C; Rg 20°C. No subcooling; Ta 35°C. Data in accordance to EN12900 guideline polynomial curve.

Performance Curve Data - Frequency: 50Hz

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	1756	369	4.76
-25	2043	382	5.35
-20	2518	399	6.31
-15	3174	420	7.56
-10	4005	443	9.05
-5	5004	466	10.73
0	6165	489	12.61
5	7482	509	14.7
10	8949	525	17.03

Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	1566	414	3.79
-25	1798	431	4.18
-20	2212	453	4.89
-15	2803	479	5.86
-10	3563	507	7.03
-5	4488	537	8.36
0	5570	566	9.85
5	6802	593	11.48
10	8180	616	13.28

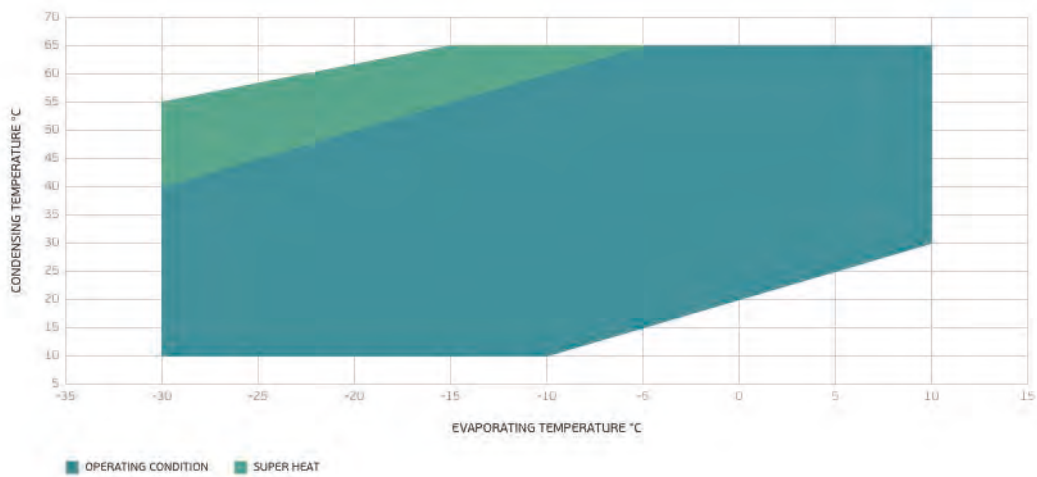
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	1499	472	3.18
-25	1642	493	3.33
-20	1962	519	3.78
-15	2455	550	4.47
-10	3113	583	5.34
-5	3929	618	6.36
0	4898	652	7.51
5	6014	685	8.77
10	7268	715	10.16

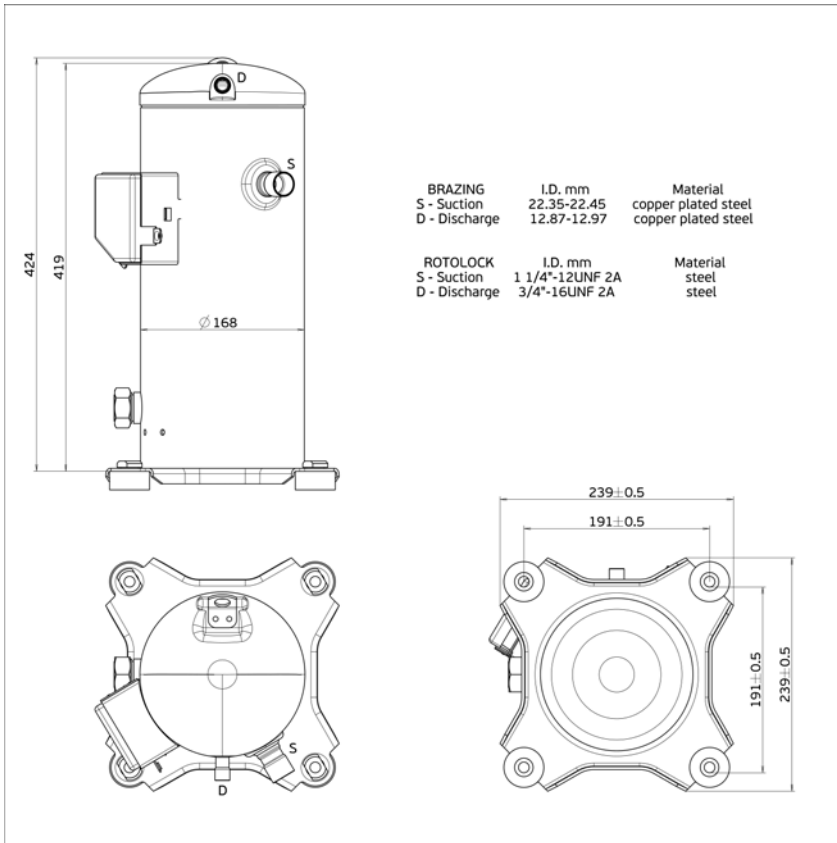
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



The envelope presented is related to R404A/R452A. For others, please contact our technical support.

External Dimensions



Wiring Diagram

